BUREAU OF RECLAMATION, DEPARTMENT OF THE INTERIOR FISCAL YEAR 1996 ANNUAL VALUE (ENGINEERING) PROGRAM REPORT BUREAU OF RECLAMATION, DEPARTMENT OF THE INTERIOR FISCAL YEAR 1996 ANNUAL VALUE (ENGINEERING) PROGRAM REPORT

PART I.

Name, Title, Address and Phone Number of Agency Senior Official Responsible for Value Program (VE):

Francis G. McLean, Reclamation Value Program Manager

PO Box 25007, ATTN Code: D-8170, Denver CO 80225, (303) 236-9120 x236

Agency Value Program (VE) Expenditures (\$'s Invested in VE activities this fiscal year): \$ 1,030,432

Dollar Share of Savings Provided to Contractors: \$

12,474,691

49,265 (Through VECP program)

Dollar Thresholds for each Value Program (VE) category (if different from \$1 million):

Construction related features are studied (unless waived for cause) if their dollar threshold exceeds \$500,000 Non-construction related features are considered for study if the feature change exceeds the threshold \$1,000,000.

TOTAL RECLAMATION NET LIFE-CYCLE COST SAVINGS ATTRIBUTABLE TO VALUE PROGRAM (VE):

A. Summary of cost savings and avoidances reported by category (See B, below):

101,011

Cost Savings Cost Avoidance
In-House Contractor In-House Contract

 Cost Avoidance
 Total Savings+Avoidance

 In-House
 Contractor

 7,151,835
 0

 19,626,526
 101,011

Grand Total In-house + Contractor Savings+Avoidance 19,727,537

B. Total Reclamation Value Program (VE) Net Life-Cycle Cost Savings and Cost Avoidances by Category:

Category							Grand Total In-house +
	Cost Sa In-House	vings Contractor	<u>Cost Avoidance</u> ctor In-House Contractor		Total Savings <u>In-House</u>	+Avoidance <u>Contractor</u>	Contractor Savings+Avoidance
1. Acquisition	0	0	0	0	0	0	0
2. Administrative	0	0	297,935	0	297,935	0	297,935
3. Other (specific fea	tures)						
a. Construction Activities b. Operations and	9,418,691	101,011	5,378,900	0	14,797,591	101,011	14,898,602
Maintenance	0	0	0	0	0	0	0
c. Grants and Loans	3,056,000	0	1,475,000	0	4,531,000	0	4,531,000

C. Steps Reclamation has taken to validate the reported cost savings, whether through IG audit or other measures:

Reclamation uses cost estimating personnel on all studies, VECP analyses, and other VE related activities to determine the most the most appropriate cost savings and/or avoidance estimates. Design teams then review the data and make specific estimates for the final estimate of the accepted recommended savings and/or avoidance. The resulting figures are subject to spot review and verification by the Program Coordinator, Program Manager, and IG audit.

BUREAU OF RECLAMATION, DEPARTMENT OF THE INTERIOR FISCAL YEAR 1996

ANNUAL VALUE (ENGINEERING) PROGRAM REPORT

PART II	VALUE F	ROGRAM	(VE	PROJECT	DES	CRIPTIO	Ν
		_		_			

<u>FART II</u>	VALUE PROG	NAIVI (VE) FI	KOJECI DE	SCRIF HON				
	<u>VE Program I</u>	xpenditures	Cost Sa	avings	Cost Avo	<u>oidance</u>		<u>Validation</u>
Item # PROJECT TITLE	In-House	Contractor	In-House	Contractor	In-House	Contractor		Method*
1 BOR/GP/Pathfinder Dam Madification	\$29,000		\$1,800,000		\$2,200,000			Standard
2 BOR/GP/Twin Buttes Dam Modification	\$27,000				\$2,878,900			Standard
3 BOR/LC/California Undersea Aqueduct Investigation Report	\$19,600				\$10,000			Standard
4 BOR/MP/Orestimba Siphon Repair	\$4,000				\$300,000		(see note 1)	Standard
5 BOR/MP/Marble Bluff Dam Fish Passage	\$25,000		\$100,000				(see note 1)	Standard
6 BOR/MP/Nibus Dam, 60 Inch Water Supply Pipeline	\$10,000		\$0					Standard
7 BOR/UC/Rockport Lake State Park Improvements	\$1,000		\$43,000					Standard
8 BOR/UC/Velarde Acequia Improvements	\$17,000		\$117,000					Standard
9 BOR/UC/Block 8 pumping plant B2.1R and B3.1G Laterals	\$25,000		\$1,593,000					Standard
10 BOR/UC/Scofield Dam Modification	\$20,000		\$300,000				(see note 1)	Standard
11 BOR/PN/PC User Graphical Interface	\$10,000				\$177,935			Standard
12 BOR/PN/Ochoco Dam Spillway (SOD)	\$22,000		\$3,200,000					Standard
13 BOR/PN/Yakima Tieton Fishscreen Fish Passage Facilities	\$11,000		\$136,000					Standard
14 BOR/PN/Outlet Works Modification Kachess Dam	\$21,000		\$1,579,691					Standard
15 BOR/PN/Stanfield Relift Pumping Plant	\$18,000		\$550,000					Standard
16 BOR/PN/Naches-Sehah Canal Fishscreen Fish Passage Facility	\$2,000		\$0					Standard
17 BOR/RSC/DOI VE Training Program	\$1,000				\$110,000			Standard
18 BOR/RSC/Seismic Safety Alternatives-EO	\$32,000		\$0					Negotiated
19 BOR/LC/Warehouse no.1 and 2 Roof Replacement	\$0	\$2,503		\$3,850				Negotiated
20 BOR/MP/Keswick Spillway Fish Channel	\$4,000	\$39,038		\$86,750				Negotiated
21 BOR/UC/Transformer for Crystal Powerplant	\$868	\$3,380		\$2,512				Negotiated
22 BOR/UC/Gallegos PP Prime Contract	\$0	\$446		\$811				Negotiated
23 BOR/UC/Espanloa Division Riprap Supply	\$0	\$3,898		\$7,087				Negotiated
24 BOR/UC/East End Government Highline Canal Reach-1A	\$1,700				\$0			Standard
25 BOR/GP/Core Pipeline Transmission System	\$44,000		\$3,056,000					Standard
26 BOR/GP/Supervisory Control and Data Acquisition System (SCA	ADA) \$25,000				\$275,000			Standard
27 BOR/GP/Core Pipeline Transmission System, Planning Study	\$30,000				\$1,200,000			Standard
28 BOR/GP/Willow Creek Dam Modifications	\$5,000		\$0					

(*Validation listed as "standard" are verified as described in Part I.B.)

-----Note 1. Estimate pending receipt of accountability report.)

Description of Quality or other Non-Quantifiable Improvements of Note:

Item# PROJECT TITLE	DESCRIPTION NOTE
4 BOR/MP/Orestimba Siphon Repair	Improvement in estimated construction schedule, ease of construction, projected
	inspection operations, and less complex design projected to have resulted from VE activity.
8 BOR/UC/Velarde Acequia Improvements	Improvement in estimated construction schedule, ease of construction, projected
	inspection operations, and less complex design projected to have resulted from VE activity.
11 BOR/PN/PC User Graphical Interface	Several improvement in production, morale, and other non-quantifiable features are expected
17 BOR/RSC/DOI VE Training Program	Several improvement in production, morale, and other non-quantifiable features are expected
18 BOR/RSC/Seismic Safety Alternatives-EO	Improvement in estimated time to complete and efficiency are expected
25 BOR/GP/Core Pipeline Transmission System	Cost and projected service improvements allowed more users to be served than originally
	expected it was possible to serve.
23-26 BOR/GP/Mni Wiconi Project (Grant)	Many improvements and added benefits to grantee. VE use accepted by grantee to allow
	funds to be best used.
General notation	Projects showing no savings or avoidance had benefits that were difficult to quantify and had
	added nonmonetary benefits identified.

BUREAU OF RECLAMATION, DEPARTMENT OF THE INTERIOR FISCAL YEAR 1996

ANNUAL VALUE (ENGINEERING) PROGRAM REPORT

PART III. (DETAILED LISTING OF ALL VALUE PROGRAM PROJECTS WITH CONFIRMED SAVINGS IN REPORTING FY)

PROGRAM/PROJECT NAME:

1 BOR/GP/Pathfinder Dam Madification

	1994	1995	1996	1997	1998	1999	2000		
1. Cost Savings			1,800,000						
2. Cost Avoidance			2,200,000						
3. Dollar Share of Savings Provided to Contractors			0						
4. Value Program Expenses Attributable to this Progr	am/Project		29,000						
(Including a pro rata share of Salary/Expenses)	•								
5. For programs/projects not discussed in Part II of the report, discussion of the steps taken to validate reported cost savings.									

For programs/projects not discussed in Part II of the report, discussion of the steps taken to validate reported cost savings. whether through IG audits or other measures.

Internal standard method used as discussed in Part I.B. Value Program Manager Review and spot audit verification performed.

PROGRAM/PROJECT NAME:

2 BOR/GP/Twin Buttes Dam Modification

	1994	1995	1996	1997	1998	1999	2000
1. Cost Savings			0				
2. Cost Avoidance		2	2,878,900				
3. Dollar Share of Savings Provided to Contractors			0				
4. Value Program Expenses Attributable to this Program/Project			27,000				
(Including a pro rata share of Salary/Expenses)							

5. For programs/projects not discussed in Part II of the report, discussion of the steps taken to validate reported cost savings. whether through IG audits or other measures.

Internal standard method used as discussed in Part I.B. Value Program Manager Review and spot audit verification performed.

PROGRAM/PROJECT NAME:

3 BOR/LC/California Undersea Aqueduct Investigation Report

	1994	1995	1996	1997	1998	1999	2000
1. Cost Savings			0				
2. Cost Avoidance			10,000				
3. Dollar Share of Savings Provided to Contractors			0				
4. Value Program Expenses Attributable to this Program/Project			19,600				
(Including a pro rata share of Salary/Expenses)							

5. For programs/projects not discussed in Part II of the report, discussion of the steps taken to validate reported cost savings. whether through IG audits or other measures.

Internal standard method used as discussed in Part I.B. Value Program Manager Review and spot audit verification performed.

PART III. (continued)

PROGRAM/PROJECT NAME:

4 BOR/MP/Orestimba Siphon Repair							
	1994	1995	1996	1997	1998	1999	2000
Cost Savings Cost Avoidance			0 300,000				
3. Dollar Share of Savings Provided to Contractors			0				
4. Value Program Expenses Attributable to this Program/Project			4,000				
(Including a pro rata share of Salary/Expenses)			4,000				
5. For programs/projects not discussed in Part II of the report, discussion of the	ne steps taken	to validate re	ported cost sa	avinas.			
whether through IG audits or other measures.			,				
Internal standard method used as discussed in Part I.B.							
PROGRAM/PROJECT NAME:							
5 BOR/MP/Marble Bluff Dam Fish Passage							
· ·	4004	400E	4006	4007	4000	4000	2000
	1994	1995	1996	1997	1998	1999	2000
1. Cost Savings			100,000				
2. Cost Avoidance			0				
3. Dollar Share of Savings Provided to Contractors			0				
4. Value Program Expenses Attributable to this Program/Project			25,000				
(Including a pro rata share of Salary/Expenses)							
5. For programs/projects not discussed in Part II of the report, discussion of the	ne steps taken	to validate re	ported cost sa	avings.			
whether through IG audits or other measures.							
Internal standard method used as discussed in Part I.B.							

PROGRAM/PROJECT NAME:

6 BOR/MP/Nibus Dam, 60 Inch Water Supply Pipeline

	1994	1995	1996	1997	1998	1999	2000
1. Cost Savings			0				
2. Cost Avoidance			0				
3. Dollar Share of Savings Provided to Contractors			0				
4. Value Program Expenses Attributable to this Program/Project			10,000				
(Including a pro rata share of Salary/Expenses)							

5. For programs/projects not discussed in Part II of the report, discussion of the steps taken to validate reported cost savings. whether through IG audits or other measures.

Internal standard method used as discussed in Part I.B. Value Program Manager Review and spot audit verification performed.

PART III. (continued)

PROGRAM/PROJECT NAME:

7 BOR/UC/Rockport Lake State Park Improvements

	/ BOR/UC/Rockport Lake State Park Improvements							
		1994	1995	1996	1997	1998	1999	2000
1.	Cost Savings			43,000				
2.	Cost Avoidance			0				
3.	Dollar Share of Savings Provided to Contractors			0				
4.	Value Program Expenses Attributable to this Program/Project			1,000				
	(Including a pro rata share of Salary/Expenses)							
5.	For programs/projects not discussed in Part II of the report, discussion of the s	teps taken to	o validate re	ported cost sa	vings.			
	whether through IG audits or other measures.							
	Internal standard method used as discussed in Part I.B.							
P	ROGRAM/PROJECT NAME:							
	8 BOR/UC/Velarde Acequia Improvements							

	1994	1995	1996	1997	1998	1999	2000	
1. Cost Savings			117,000					
2. Cost Avoidance			0					
3. Dollar Share of Savings Provided to Contractors			0					
4. Value Program Expenses Attributable to this Program/Project			17,000					
(Including a pro rata share of Salary/Expenses)								
5. For programs/projects not discussed in Part II of the report, discussion of the steps taken to validate reported cost savings								

5. For programs/projects not discussed in Part II of the report, discussion of the steps taken to validate reported cost savings. whether through IG audits or other measures.

Internal standard method used as discussed in Part I.B.

PROGRAM/PROJECT NAME:

9 BOR/UC/Block 8 pumping plant B2.1R and B3.1G Laterals

	1994	1995	1996	1997	1998	1999	2000
1. Cost Savings			1,593,000				
2. Cost Avoidance			0				
3. Dollar Share of Savings Provided to Contractors			0				
4. Value Program Expenses Attributable to this Program/Project			25,000				
(Including a pro rata share of Salary/Expenses)							

5. For programs/projects not discussed in Part II of the report, discussion of the steps taken to validate reported cost savings. whether through IG audits or other measures.

PART III. (continued)

PROGRAM/PROJECT NAME:

10 BOR/UC/Scofield Dam Modification

		1994	1995	1996	1997	1998	1999	2000
1.	. Cost Savings			300,000				
2	. Cost Avoidance			0				
3	. Dollar Share of Savings Provided to Contractors			0				
4	. Value Program Expenses Attributable to this Program/Project			20,000				
	(Including a pro rata share of Salary/Expenses)							
5	. For programs/projects not discussed in Part II of the report, discussion of the	steps taken	to validate re	ported cost sa	avings.			

For programs/projects not discussed in Part II of the report, discussion of the steps taken to validate reported cost savings. whether through IG audits or other measures.

Internal standard method used as discussed in Part I.B.

PROGRAM/PROJECT NAME:

11 BOR/PN/PC User Graphical Interface

	1994	1995	1996	1997	1998	1999	2000
1. Cost Savings			0				
2. Cost Avoidance			177,935				
3. Dollar Share of Savings Provided to Contractors			0				
4. Value Program Expenses Attributable to this Program/Project			10,000				
(Including a pro rata share of Salary/Expenses)							

5. For programs/projects not discussed in Part II of the report, discussion of the steps taken to validate reported cost savings. whether through IG audits or other measures.

Internal standard method used as discussed in Part I.B.

PROGRAM/PROJECT NAME:

12 BOR/PN/Ochoco Dam Spillway (SOD)

	1994	1995	1996	1997	1998	1999	2000
1. Cost Savings		;	3,200,000				
2. Cost Avoidance			0				
3. Dollar Share of Savings Provided to Contractors			0				
4. Value Program Expenses Attributable to this Program/Project			22,000				
(Including a pro rata share of Salary/Expenses)							

5. For programs/projects not discussed in Part II of the report, discussion of the steps taken to validate reported cost savings. whether through IG audits or other measures.

PART III. (continued)

PROGRAM/PROJECT NAME:

13 BOR/PN/Yakima Tieton Fishscreen Fish Passage Facilities

		1994	1995	1996	1997	1998	1999	2000
1.	Cost Savings			136,000				
2.	Cost Avoidance			0				
3.	Dollar Share of Savings Provided to Contractors			0				
4.	Value Program Expenses Attributable to this Program/Project			11,000				
	(Including a pro rata share of Salary/Expenses)							
5.	For programs/projects not discussed in Part II of the report, discussion of the	steps taken	to validate re	ported cost sa	vings.			

whether through IG audits or other measures.

Internal standard method used as discussed in Part I.B.

PROGRAM/PROJECT NAME:

14 BOR/PN/Outlet Works Modification Kachess Dam

	1994	1995	1996	1997	1998	1999	2000
1. Cost Savings		•	1,579,691				
2. Cost Avoidance			0				
3. Dollar Share of Savings Provided to Contractors			0				
4. Value Program Expenses Attributable to this Program/Project			21,000				
(Including a pro rata share of Salary/Expenses)							

5. For programs/projects not discussed in Part II of the report, discussion of the steps taken to validate reported cost savings. whether through IG audits or other measures.

Internal standard method used as discussed in Part I.B.

PROGRAM/PROJECT NAME:

15 BOR/PN/Stanfield Relift Pumping Plant

	1994	1995	1996	1997	1998	1999	2000
1. Cost Savings			550,000				
2. Cost Avoidance			0				
3. Dollar Share of Savings Provided to Contractors			0				
4. Value Program Expenses Attributable to this Program/Project			18,000				
(Including a pro rata share of Salary/Expenses)							

5. For programs/projects not discussed in Part II of the report, discussion of the steps taken to validate reported cost savings. whether through IG audits or other measures.

PART III. (continued)

PROGRAM/PROJECT NAME:

16 BOR/PN/Naches-Sehah Canal Fishscreen Fish Passage Facility

		1994	1995	1996	1997	1998	1999	2000
1.	. Cost Savings			0				
2.	. Cost Avoidance			0				
3.	. Dollar Share of Savings Provided to Contractors			0				
4.	. Value Program Expenses Attributable to this Program/Project			2,000				
	(Including a pro rata share of Salary/Expenses)							
5	For programs/projects not discussed in Part II of the report discussion of the	stens taken t	o validate rei	norted cost sa	vinas			

For programs/projects not discussed in Part II of the report, discussion of the steps taken to validate reported cost savings. whether through IG audits or other measures.

Internal standard method used as discussed in Part I.B.

PROGRAM/PROJECT NAME:

17 BOR/RSC/DOI VE Training Program

	1994	1995	1996	1997	1998	1999	2000
1. Cost Savings			0				
2. Cost Avoidance			110,000				
3. Dollar Share of Savings Provided to Contractors			0				
4. Value Program Expenses Attributable to this Program/Project			1,000				
(Including a pro rata share of Salary/Expenses)							

5. For programs/projects not discussed in Part II of the report, discussion of the steps taken to validate reported cost savings. whether through IG audits or other measures.

Internal standard method used as discussed in Part I.B. Value Program Manager Review and spot audit verification performed.

PROGRAM/PROJECT NAME:

18 BOR/RSC/Seismic Safety Alternatives-EO

	1994	1995	1996	1997	1998	1999	2000
1. Cost Savings			0				
2. Cost Avoidance			0				
3. Dollar Share of Savings Provided to Contractors			0				
4. Value Program Expenses Attributable to this Program/Project			32,000				
(Including a pro rata share of Salary/Expenses)							

5. For programs/projects not discussed in Part II of the report, discussion of the steps taken to validate reported cost savings. whether through IG audits or other measures.

PART III. (continued)

PROGRAM/PROJECT NAME:

19 BOR/LC/Warehouse no.1 and 2 Roof Replacement

		1994	1995	1996	1997	1998	1999	2000
1.	Cost Savings			3,850				
2.	Cost Avoidance			0				
3.	Dollar Share of Savings Provided to Contractors			2,503				
4.	Value Program Expenses Attributable to this Program/Project			2,503				
	(Including a pro rata share of Salary/Expenses)							
5.	For programs/projects not discussed in Part II of the report, discussion of the s	teps taken to	validate repo	rted cost savir	ngs.			

whether through IG audits or other measures.

VECP - Savings directly tied to contractual activity.

PROGRAM/PROJECT NAME:

20 BOR/MP/Keswick Spillway Fish Channel

	1994	1995	1996	1997	1998	1999	2000
1. Cost Savings			86,750				
2. Cost Avoidance			0				
3. Dollar Share of Savings Provided to Contractors			39,038				
4. Value Program Expenses Attributable to this Program/Project			43,038				
(Including a pro rata share of Salary/Expenses)							

5. For programs/projects not discussed in Part II of the report, discussion of the steps taken to validate reported cost savings. whether through IG audits or other measures.

VECP - Savings directly tied to contractual activity.

PROGRAM/PROJECT NAME:

21 BOR/UC/Transformer for Crystal Powerplant

	1994	1995	1996	1997	1998	1999	2000
1. Cost Savings			2,512				
2. Cost Avoidance			0				
3. Dollar Share of Savings Provided to Contractors			3,380				
4. Value Program Expenses Attributable to this Program/Project			4,248				
(Including a pro rata share of Salary/Eypenses)							

(Including a pro rata share of Salary/Expenses)
5. For programs/projects not discussed in Part II of the report, discussion of the steps taken to validate reported cost savings. whether through IG audits or other measures.

VECP - Savings directly tied to contractual activity.

PART III. (continued)

PROGRAM/PROJECT NAME:

22 BOR/UC/Gallegos PP Prime Contract

		1994	1995	1996	1997	1998	1999	2000
1.	. Cost Savings			811				
2.	. Cost Avoidance			0				
3.	. Dollar Share of Savings Provided to Contractors			446				
4.	. Value Program Expenses Attributable to this Program/Project			446				
	(Including a pro rata share of Salary/Expenses)							
	For any many days is stored with discussed in Dont II of the many at discussion of the of							

5. For programs/projects not discussed in Part II of the report, discussion of the steps taken to validate reported cost savings. whether through IG audits or other measures.

VECP - Savings directly tied to contractual activity.

PROGRAM/PROJECT NAME:

23 BOR/UC/Espanloa Division Riprap Supply

	1994	1995	1996	1997	1998	1999	2000
1. Cost Savings			7,087				
2. Cost Avoidance			0				
3. Dollar Share of Savings Provided to Contractors			3,898				
4. Value Program Expenses Attributable to this Program/Project			3,898				
(Including a pro rata share of Salary/Expenses)							

5. For programs/projects not discussed in Part II of the report, discussion of the steps taken to validate reported cost savings. whether through IG audits or other measures.

VECP - Savings directly tied to contractual activity.

PROGRAM/PROJECT NAME:

24 BOR/UC/East End Government Highline Canal Reach-1A

	1994	1995	1996	1997	1998	1999	2000
1. Cost Savings			0				
2. Cost Avoidance			0				
3. Dollar Share of Savings Provided to Contractors			0				
4. Value Program Expenses Attributable to this Program/Project			1,700				
(Including a pro rata share of Salary/Expenses)							

5. For programs/projects not discussed in Part II of the report, discussion of the steps taken to validate reported cost savings. whether through IG audits or other measures.

Internal standard method used as discussed in Part I.B. Value Program Manager Review and spot audit verification performed.

PART III. (continued)

PROGRAM/PROJECT NAME:

25 BOR/GP/Core Pipeline Transmission System

1994	1995	1996	1997	1998	1999	2000
	3	3,056,000				
		0				
		0				
		44,000				
the steps taken	to validate re	ported cost sa	avings.			
		•	3,056,000 0 0 44,000	3,056,000 0 0	3,056,000 0 0 44,000	3,056,000 0 0 44,000

PROGRAM/PROJECT NAME:

26 BOR/GP/Supervisory Control and Data Acquisition System (SCADA)

	1994	1995	1996	1997	1998	1999	2000
1. Cost Savings			0				
2. Cost Avoidance			275,000				
3. Dollar Share of Savings Provided to Contractors			0				
4. Value Program Expenses Attributable to this Program/Project			25,000				
(Including a pro rata share of Salary/Expenses)							

5. For programs/projects not discussed in Part II of the report, discussion of the steps taken to validate reported cost savings. whether through IG audits or other measures.

Internal standard method used as discussed in Part I.B.

PROGRAM/PROJECT NAME:

27 BOR/GP/Core Pipeline Transmission System, Planning Study

27 Bott of rectal repaire transmission by storm, rearring study							
	1994	1995	1996	1997	1998	1999	2000
1. Cost Savings			0				
2. Cost Avoidance		•	1,200,000				
3. Dollar Share of Savings Provided to Contractors			0				
4. Value Program Expenses Attributable to this Program/Project			30,000				
(Including a pro rata share of Salary/Expenses)							

5. For programs/projects not discussed in Part II of the report, discussion of the steps taken to validate reported cost savings. whether through IG audits or other measures.

PART III. (continued)

PROGRAM/PROJECT NAME:

28 BOR/GP/Willow Creek Dam Modifications

	1994	1995	1996	1997	1998	1999	2000
1. Cost Savings			0				
2. Cost Avoidance			0				
3. Dollar Share of Savings Provided to Contractors			0				
4. Value Program Expenses Attributable to this Program/Project (Including a pro rata share of Salary/Expenses)			5,000				

5. For programs/projects not discussed in Part II of the report, discussion of the steps taken to validate reported cost savings. whether through IG audits or other measures.

Internal standard method used as discussed in Part I.B. Value Program Manager Review and spot audit verification performed.

SUMMARY OF ALL APPORTIONED SAVINGS FOR RECLAMATION

	F	From 94 Report	From 95 Report as amended					
		1994	1995	1996	1997	1998	1999	2000
1. Cost Savings		18,211,604	6,881,100	12,575,702	0	0	0	0
2. Cost Avoidance		1,628,000	4,254,500	7,151,835	0	0	0	0
3. Dollar Share of Savings Provided to Contractors		206,583	297,900	49,265	0	0	0	0
4. Value Program Expenses Attributable to these PPA's	Proj Related:	377,000	554,739	454,432	0	0	0	0
(Including a pro rata share of Salary/Expenses)	Program/FY:	286,000	<u>429,461</u>	<u>576,000</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Expenses Sum:	663,000	984,200	1,030,432	0	0	0	0

DODINAL FOR DEPORTING EV

PART IV. (INTERIOR SE	PECIFIC REPO	ORTING POR	TION FOR RE	PORTING FY)									
A. For the reporting year, in each bureau or office, number of projects subject to study under 369-DM-1. Subject and Studied Formally Not Studied-													
					Subject and Available	Stud In-House	<u>Contractor</u>	<u>Formally</u> Waivered	<u>Not Studied-</u> Unaddressed				
1. In the threshold rang	-												
\$1,000,000 to \$500,000. 2. In the threshold range of \$1,000,000				16 27	4 18	0	10 6	2 3					
or more.				21	10	U	O	3					
3. Nonconstruction rela	ated (PPA).				Not Req'd	4	0	Not Req'd	Not Req'd				
B. For the reporting year, in each bureau or office, dollar amounts for subject to study under 369-DM-1.													
			Subject and Available	Studied	<u>Formally</u> Waivered	Not Studied- Unaddressed		<u>Percent</u> Studied	<u>Percent</u> Waivered	Percent Unaddressed			
1. In the threshold rang	ge of under			<u> Otualea</u>	waivered		<u>4</u>						
\$1,000,000 to \$500,0			6,806,337	986,000	3,204,131	2,616,206		14.49%	47.08%	38.44%			
2. In the threshold range of \$1,000,000 111,692,901 9 or more.				99,127,210	7,571,869	4,993,822		88.75%	6.78%	4.47%			
3. Nonconstruction rela	ated (PPA).		Not Req'd	29,942,790	Not Req'd			Not Req'd	Not Req'd				
C. For the reporting ye	<u>ear, in each bu</u>	<u>ureau or offic</u>	e, maximum	possible estim	nated cost sa	vings and avoi	idances by Ca	ategory:					
C. For the reporting ye	ear, in each bu	ureau or offic	e, maximum	possible estim	nated cost sa	vings and avoi	idances by Ca	ategory:	Grand Total				
C. For the reporting ye	ear, in each bu <u>Cost S</u> e		e, maximum	possible estim Cost Avo		-	idances by Ca Total Savings		Grand Total In-house + Contractor				
C. For the reporting ye			ce, maximum j			-	-		In-house +	lance			
,	Cost S	avings	e, maximum	Cost Avo	<u>idance</u>	-	Total Savings	s+Avoidance	In-house + Contractor	lance			
Category	Cost Sa In-House	avings Contractor	e, maximum	Cost Avo	oidance Contractor	-	Total Savings <u>In-House</u>	s+Avoidance Contractor	In-house + Contractor <u>Savings+Avoi</u> c	lance			
Category 1. Acquisition	Cost Sa In-House 0 0	avings Contractor 0	e, maximum	Cost Avo In-House	oidance Contractor 0	-	Total Savings In-House 0	s+Avoidance Contractor	In-house + Contractor Savings+Avoic	lance			
Category 1. Acquisition 2. Administrative	Cost Sa In-House 0 0	avings Contractor 0	e, maximum	Cost Avo In-House	oidance Contractor 0	-	Total Savings In-House 0	s+Avoidance Contractor	In-house + Contractor Savings+Avoic	lanc <u>e</u>			
Category 1. Acquisition 2. Administrative 3. Other (specific feat a. Construction Activities	Cost Sa In-House 0 0	avings Contractor 0	e, maximum	Cost Avo In-House	oidance Contractor 0	-	Total Savings In-House 0	s+Avoidance Contractor	In-house + Contractor Savings+Avoic	lance			
Category 1. Acquisition 2. Administrative 3. Other (specific feat a. Construction Activities b. Operations and	Cost Si In-House 0 0 tures)	avings Contractor 0 0	e, maximum	Cost Avo In-House 0 13,582,035 1,110,000	oidance Contractor 0 0	-	Total Savings In-House 0 13,582,035 25,990,965	s+Avoidance Contractor 0 0	In-house + Contractor Savings+Avoic 0 13,582,035	lance			
Category 1. Acquisition 2. Administrative 3. Other (specific feat a. Construction Activities	Cost Sa In-House 0 0 tures)	avings Contractor 0	e, maximum	Cost Avo In-House 0 13,582,035	oidance Contractor 0 0	-	Total Savings In-House 0 13,582,035	s+Avoidance Contractor 0 0	In-house + Contractor Savings+Avoic 0 13,582,035	lance			
Category 1. Acquisition 2. Administrative 3. Other (specific feat a. Construction Activities b. Operations and Maintenance	Cost Si In-House 0 0 tures)	avings Contractor 0 0	e, maximum	Cost Avo In-House 0 13,582,035 1,110,000	oidance Contractor 0 0	-	Total Savings In-House 0 13,582,035 25,990,965	s+Avoidance Contractor 0 0	In-house + Contractor Savings+Avoic 0 13,582,035	lance			

C.	In eacl	h bureau	or office.	number of	f personnel:
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			<u>I rained i</u>	<u>n Prior</u>	<u> Lotal Traine</u>	ed in Last	Total VE	Total Yr-end	<u>Estimated</u>
SAVE	VE Trained this FY		<u> 5 Years (exc</u>	5 Years (excl this FY)		6 Years		Personnel in	<u>Percent</u>
CVS's	Certified	<u>Other</u>	<u>Certified</u>	<u>Other</u>	Certified	<u>Other</u>	6 Yr Period	Bureau/Office	Trained
1	23	48	71	135	94	183	277	5,954	4.65%

BUREAU OF RECLAMATION, DEPARTMENT OF THE INTERIOR FISCAL YEAR 1996

ANNUAL VALUE (ENGINEERING) PROGRAM REPORT

D. Total Dollar Value at award, or initiation of actual action, of Reclamation projects reported in Part I, Section B, claimed in the VE Net Life-Cycle Cost Savings and Cost Avoidances by Category:

<u>Category</u>		rojects/Processes /Implemented Cost Contractor	VE Expenditure VE Administrat <u>In-House</u> *	` .	Return on Inve Cost Savings In-House∗	` '	Total Estimated Percent Reduction in Final Award/Impl. Cost Achieved by VE Effort
1. Acquisition	0	0	0	0	NA	NA	NA
2. Administrative	10,055,000	0	87,714	0	3.40	NA	2.88%
3. Other (specific fe	atures)						
a. Construction Activities b. Operations and	76,176,967	101,011	488,892	49,617	30.27	2.04	16.34%
Maintenance	0	0	0	0	NA	NA	NA
c. Grants and Loans	78,606,901	0	412,710	0	10.98	NA	5.45%
TOTALS	164,838,868	101,011	989,315	49,617	19.84	2.04	10.68%

^{*}Includes projects which were studied and awarded but did not result in accepted proposals or did not produce savings.